

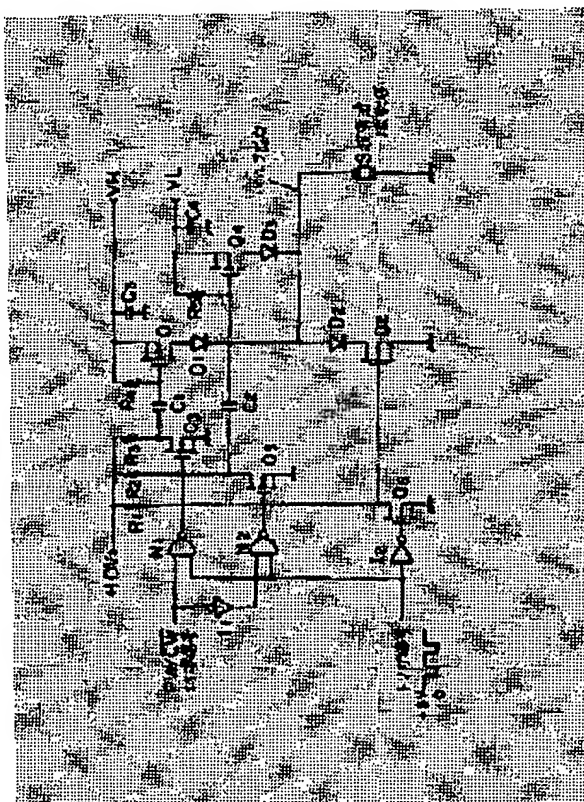
# ULTRASONIC DIAGNOSIS APPARATUS

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## Abstract of JP3085146

**PURPOSE:** To make a circuit size of a driving circuit small and to perform rapidly switching of driving by providing two source drivers each selectively applying a high voltage and a low voltage to an ultrasonic vibrator per one signal system and one sink driver. **CONSTITUTION:** Two source drivers Q1 and Q4 each for high voltage and low voltage and one sink driver Q2 are provided on a pulse driving circuit of an ultrasonic diagnosis apparatus. It becomes thereby unnecessary to provide one sink driver corresponding to one source driver and it is possible to reduce the number of elements occupying a large element area and being expensive. Especially when a signal system of the ultrasonic diagnosis apparatus includes tens to more than a hundred signal channels, the element area saved by reducing sink drivers from 2 to 1 is large and it contributes to cost down. In addition, as source drivers provided are two, it is possible to switch with high speed between high voltage driving and low voltage driving and to improve diagnosis efficiency as such a movement as B fresh becomes possible.



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